

=> d his

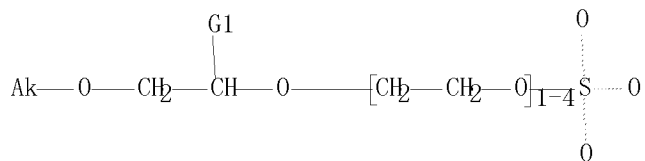
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FILE 'REGISTRY' ENTERED AT 17:55:57 ON 20 DEC 2008

L1 STRUCTURE UPLOADED  
 L2 STRUCTURE UPLOADED  
 L3 0 S L1 OR L2  
 L4 7 S L1 OR L2 FULL

=> d que l4 stat

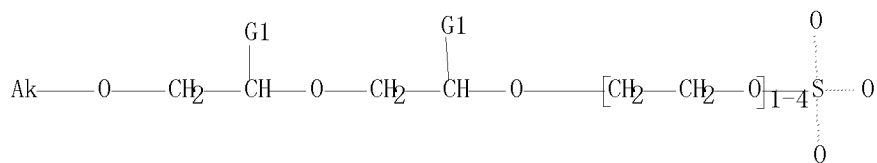
L1 STR



G1 Me,Et

Structure attributes must be viewed using STN Express query preparation.

L2 STR



G1 Me,Et

Structure attributes must be viewed using STN Express query preparation.

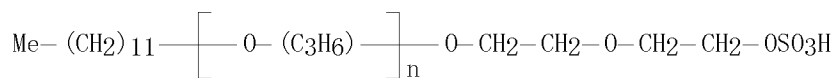
L4 7 SEA FILE=REGISTRY SSS FUL L1 OR L2

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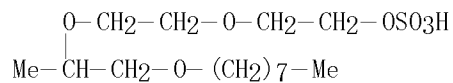
7 ANSWERS

=> d 1-7 ide can

L4 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 742041-42-5 REGISTRY  
 ED Entered STN: 10 Sep 2004  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-[2-(sulfooxy)ethoxy]ethoxy]- (9CI) (CA INDEX NAME)  
 MF (C3 H6 O)<sub>n</sub> C16 H34 O6 S  
 CI IDS, PMS, COM  
 PCT Polyether  
 SR CA

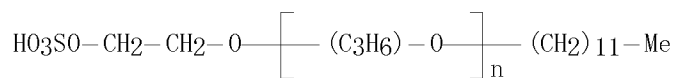


L4 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 737737-25-6 REGISTRY  
ED Entered STN: 02 Sep 2004  
CN Ethanol, 2-[2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, 1-(hydrogen sulfate)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Ethanol, 2-[2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, hydrogen sulfate  
(9CI)  
MF C15 H32 O7 S  
CI COM  
SR CA

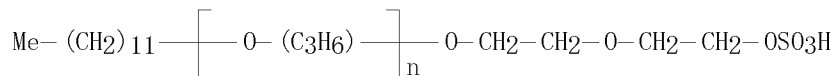


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

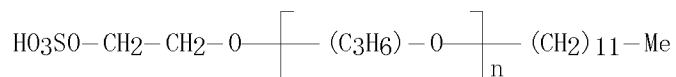
L4 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 690952-71-7 REGISTRY  
 ED Entered STN: 08 Jun 2004  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-(sulfooxy)ethoxy]- (9CI) (CA INDEX NAME)  
 MF (C3 H6 O)<sub>n</sub> C14 H30 O5 S  
 CI IDS, PMS, COM  
 PCT Polyether  
 SR CA



L4 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 190454-12-7 REGISTRY  
 ED Entered STN: 27 Jun 1997  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-[2-(sulfooxy)ethoxy]ethoxy]-, ammonium salt (9CI) (CA INDEX NAME)  
 MF (C3 H6 O)<sub>n</sub> C16 H34 O6 S . H3 N  
 CI IDS, PMS  
 PCT Polyether  
 SR CAS Client Services  
 CRN (742041-42-5)



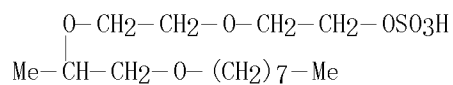
L4 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 182704-29-6 REGISTRY  
 ED Entered STN: 05 Nov 1996  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-(sulfooxy)ethoxy]-, sodium salt (9CI) (CA INDEX NAME)  
 MF (C3 H6 O)<sub>n</sub> C14 H30 O5 S . Na  
 CI IDS, PMS  
 PCT Polyether  
 SR CA  
 LC STN Files: CA, CAPLUS  
 CRN (690952-71-7)



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 125:279230

L4 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 176660-48-3 REGISTRY  
 ED Entered STN: 24 May 1996  
 CN Ethanol, 2-[2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, 1-(hydrogen sulfate),  
 sodium salt (1:1) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ethanol, 2-[2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, hydrogen sulfate,  
 sodium salt (9CI)  
 MF C15 H32 O7 S . Na  
 SR CA  
 LC STN Files: CA, CAPLUS  
 CRN (737737-25-6)

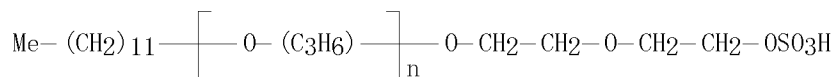


● Na

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:320183

L4 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 166407-12-1 REGISTRY  
 ED Entered STN: 17 Aug 1995  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-[2-(sulfooxy)ethoxy]ethoxy]-, sodium salt (9CI) (CA INDEX NAME)  
 MF (C3 H6 O)<sub>n</sub> C16 H34 O6 S . Na  
 CI IDS, PMS  
 PCT Polyether  
 SR CA  
 LC STN Files: CA, CAPLUS  
 CRN (742041-42-5)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:130783

REFERENCE 2: 123:148412



=> fil capl  
FILE 'CAPLUS' ENTERED AT 17:57:33 ON 20 DEC 2008  
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FILE COVERS 1907 - 20 Dec 2008 VOL 149 ISS 26  
FILE LAST UPDATED: 19 Dec 2008 (20081219/ED)

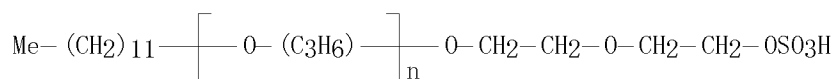
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<http://www.cas.org/legal/infopolicy.html>  
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L5 4 L4  
=> d 1-4 bib abs hitstr

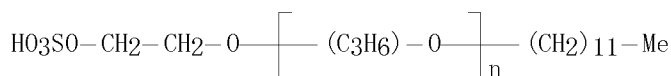
L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:459049 CAPLUS  
 DN 144:130783  
 TI Synthesis of new extended surfactants containing a carboxylate or sulfate polar group  
 AU Fernandez, Alvaro; Scorzza, Cesar; Usubillaga, Alfredo; Salager, Jean-Louis  
 CS Research Institute, Pharmacy College, University of The Andes, Merida, 5101, Venez.  
 SO Journal of Surfactants and Detergents (2005), 8(2), 187-191  
 CODEN: JSDEFL; ISSN: 1097-3958  
 PB AOCs Press  
 DT Journal  
 LA English  
 AB New extended anionic surfactants with a carboxylate or sulfate polar head were synthesized from polypropoxylated alcs., and their structures were confirmed by <sup>1</sup>H and <sup>13</sup>C NMR anal. The extended surfactant critical micelle concentration was found to decrease with the length of the polypropylene glycol spacer. Surfactants containing a diethylene glycol link to the head group exhibited a higher critical micelle concentration than did their nondiethoxylated homologs.  
 IT 166407-12-1P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis of extended surfactants containing a carboxylate or sulfate polar group)  
 RN 166407-12-1 CAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-[2-(sulfooxy)ethoxy]ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1996:591250 CAPLUS  
 DN 125:279230  
 OREF 125:52179a,52182a  
 TI Systems containing mixtures of extended surfactants and conventional nonionics. Phase behavior and solubilization in microemulsion  
 AU Minana-Perez, M.; Graciaa, A.; Lachaise, J.; Salager, J. -L.  
 CS Ingenieria Quimica, Universidad de Los Andes, Merida, Venez.  
 SO World Surfactants Congress, 4th, Barcelona, June 3-7, 1996 (1996), Volume 2, 226-234 Publisher: Asociacion Espanola de Productores de Sustancias para Aplicaciones Tensioactivas, Barcelona, Spain.  
 CODEN: 63KCAH  
 DT Conference  
 LA English  
 AB The concept of lipophilic linker action recently allowed development of extended surfactants in which an intermediate polarity poly(propylene oxide) chain is inserted between the conventional lipophilic and hydrophilic groups. These extended surfactants are found to considerably enhance the interaction on the oil side of the interface up to the point that the formation of microemulsions is now possible with natural and synthetic triglyceride oils or very-long-chain hydrocarbons. Extended surfactants of the alkyl poly(propylene oxide) ethoxy sulfate type are mixed with conventional ethoxylated alkylphenol nonionics and the phase behavior and formation of microemulsions are analyzed by changing several formulation variables such as: mixture composition, number of propylene oxide groups, aqueous phase salinity, etc.  
 IT 182704-29-6  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (mixts. with nonionic surfactants; phase behavior and solubilization in microemulsion)  
 RN 182704-29-6 CAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-(sulfooxy)ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1996:303961 CAPLUS

DN 124:320183

OREF 124:59313a, 59316a

TI (Octyloxy)propanols for use in surfactant manufacture

IN Schmid, Karl; Neus, Michael; Nitsche, Michael

PA Henkel KGaA, Germany

SO Ger. Offen., 11 pp.

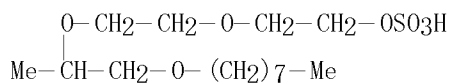
CODEN: GWXXBX

DT Patent

LA German

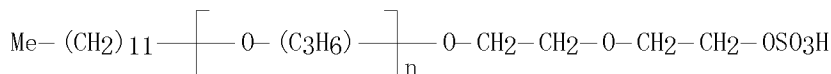
FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4436066	A1	19960411	DE 1994-4436066	19941010
	WO 9611177	A1	19960418	WO 1995-DE1356	19951002
	W: CN, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 785918	A1	19970730	EP 1995-934041	19951002
	R: DE, ES, FR, IT				
PRAI	DE 1994-4436066	A	19941010		
	WO 1995-DE1356	W	19951002		
OS	CASREACT 124:320183; MARPAT 124:320183				
AB	The alcs. ROCH <sub>2</sub> CH(Me)OH (R = branched or normal C8 alkyl group), containing <5% free octanol and useful for ethoxylation and sulfation in surfactant manufacture, are prepared Heating 2 mol 1-octanol, 2-mol propylene oxide, and 4 g NaOMe at 140° for 30 min and vacuum distillation gave a nearly quant. yield of 1-(octyloxy)-2-propanol (I) containing 0.9% free octanol. Sulfation and ethoxylation of I are exemplified.				
IT	176660-48-3P				
	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manufacture of, for use in detergents)				
RN	176660-48-3 CAPLUS				
CN	Ethanol, 2-[2-[1-methyl-2-(octyloxy)ethoxy]ethoxy]-, 1-(hydrogen sulfate), sodium salt (1:1) (CA INDEX NAME)				



● Na

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 1995:717380 CAPLUS  
 DN 123:148412  
 OREF 123:26341a,26344a  
 TI Solubilization of polar oils with extended surfactants  
 AU Minana-Perez, Matilde; Graciaa, Alain; Lachaise, Jean; Salager, Jean-Louis  
 CS Lab. FIRP, Ingenieria Quimica, Universidad de Los Andes, Merida, Venez.  
 SO Colloids and Surfaces, A: Physicochemical and Engineering Aspects (1995),  
 100, 217-24  
 CODEN: CPEAEH; ISSN: 0927-7757  
 PB Elsevier  
 DT Journal  
 LA English  
 AB The solubilization of oil and water in a microemulsion can be improved by  
 the introduction of an additive, a so-called extended-surfactant  
 lipophilic linker that has a polypropylene oxide chain inserted between  
 conventional alkyl ether and ether sulfate groups. This compound, a  
 polypropylene oxide monododecyl ether sulfate, is of general structure  
 $C_{12}H_{25}(OC_3H_6)_6-14(OCH_2CH_2)_{20}SO_3Na^+$ . These surfactants exhibit a critical  
 micelle concentration and a cloud point that changes with the number of propylene  
 oxide groups per mol., show three-phase behavior at optimum formulations  
 with hexadecane, Et oleate, and, triglycerides (e.g., soya oil and  
 C8-10-triglycerides). Values of the optimum solubilization parameter were  
 10-30 mL/g. The results can have application in surfactant-solubilization  
 enhanced petroleum recovery.  
 IT 166407-12-1  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (surfactant; in solubilization of polar oils in water in presence of  
 lipophilic linker-type extended surfactants)  
 RN 166407-12-1 CAPLUS  
 CN Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -dodecyl- $\omega$ -[2-[2-  
 (sulfooxy)ethoxy]ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

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L7 56 SEA FILE=CAPLUS ABB=ON PLU=ON ("TROPSCH JUERGEN"/AU OR  
"TROPSCH JUERGEN G"/AU OR "TROPSCH JURGEN"/AU OR "TROPSCH  
JURGEN G"/AU)  
L8 22 SEA FILE=CAPLUS ABB=ON PLU=ON ("ZELINSKI THOMAS"/AU OR  
"ZELINSKI THOMAS W"/AU)  
L9 77 SEA FILE=CAPLUS ABB=ON PLU=ON L7 OR L8  
L10 5 SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND ?SULFATES

=> d 1-5 bib abs

L10 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2007:963962 CAPLUS  
 DN 147:324974  
 TI Surfactant mixture containing short-chain and long-chain components  
 IN Steinbrenner, Ulrich; Kieburg, Christoffer; Tropsch, Juergen;  
 Baur, Richard; Zimdahl, Soeren; Dailey, James S.; Lippert, Ernst; Iyer,  
 Sridhar G.  
 PA BASF Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 42pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN, CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007096292	A1	20070830	WO 2007-EP51463	20070215
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	CA 2640642	A1	20070830	CA 2007-2640642	20070215
	EP 1988986	A1	20081112	EP 2007-704591	20070215
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	KR 2008087178	A	20080930	KR 2008-720604	20080822
PRAI	EP 2006-110269	A	20060222		
	WO 2007-EP51463	W	20070215		

AB A surfactant mixture with HLB value 10 - 15 comprising (a) a short-chain component containing alkoxylation products (ethoxy, propoxy, butoxy and/or pentoxy) of C8-12 alkanols having branching degree  $\geq 1$  and (b) a long-chain component containing alkoxylation products (ethoxy, propoxy, butoxy and/or pentoxy) of C13-20 alkanols having branching degree 0 - 0.3 or/and their phosphates, sulfates ester and/or ethercarboxylates at ratios (99:1) - (1:99) is used as a cleaning and wetting agent. Thus, a mixture 2-propylheptanol and 5-methyl-2-propylhexanol having average branching degree 1.15 and tallow alcs. (C16-18 alcs.) having branching degree 0 at ratio 9:1 was ethoxylated with 20-x excess of ethylene oxide in the presence KOH giving a stable against lyotropic salts mixture having HLB value 11.6 used as wetting agent for cotton textiles.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:901877 CAPLUS  
 DN 143:250105  
 TI Polyoxyalkylene alkyl ether sulfates as anionic surfactants with  
 low critical micelle concentrations  
 IN Tropsch, Juergen; Zelinski, Thomas  
 PA BASF A.-G., Germany  
 SO Ger. Offen., 14 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 102004007152	A1	20050825	DE 2004-102004007152	20040212
	CA 2555788	A1	20050825	CA 2005-2555788	20050210
	WO 2005077893	A1	20050825	WO 2005-EP1319	20050210
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1718606	A1	20061108	EP 2005-707300	20050210
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	CN 1918116	A	20070221	CN 2005-80004894	20050210
	JP 2007534669	T	20071129	JP 2006-552540	20050210
	MX 2006PA08468	A	20061009	MX 2006-PA8468	20060727
	US 20080207939	A1	20080828	US 2006-588217	20060802
PRAI	DE 2004-102004007152	A	20040212		
	WO 2005-EP1319	W	20050210		

OS MARPAT 143:250105

AB  $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_x(\text{CH}_2\text{CHR}_{10})_y(\text{CH}_2\text{CH}_2\text{O})_z\text{SO}_3\text{-M}^+$  (I; R = C8-18 alkyl; R1 = Me, Et; M<sup>+</sup> = alkali metal cation, NH<sub>4</sub><sup>+</sup>, HNR<sub>2</sub><sup>2+</sup>; R2 = alkyl, CH<sub>2</sub>CH<sub>2</sub>OH, CH<sub>2</sub>CHOHMe; x = 0-3; y = 1-10; z = 0-30) are useful as anionic surfactants in detergents and cosmetic formulations. The CMC values of surfactants I are comparable to those of long-chain alcs. and the ratio A of CMC values for  $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_z\text{SO}_3\text{-M}^+$  and CMC for I is >1, preferably >1.5. For example, a sulfonated alkoxylation product of 2-propylheptanol comprising 2 mol propylene oxide and 3 mol ethylene oxide had CMC 1.67 mmol/L, vs. 8.29 mmol/L for sulfonated alkoxylation product of 2-propylheptanol propoxylated with 3 mol propylene oxide, which gave A ratio of 4.96.



L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2002:89987 CAPLUS  
 DN 136:136652  
 TI Manufacture of secondary C10-18 alcohols as surfactants  
 IN Maas, Heiko; Tropsch, Juergen  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 28 pp.  
 CODEN: PIXXD2

DT Patent

LA German

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002008164	A1	20020131	WO 2001-EP8197	20010716
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10035617	A1	20020131	DE 2000-10035617	20000721
	CA 2415715	A1	20020131	CA 2001-2415715	20010716
	EP 1303472	A1	20030423	EP 2001-956537	20010716
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001012647	A	20030624	BR 2001-12647	20010716
	JP 2004504370	T	20040212	JP 2002-514074	20010716
	MX 2003PA00205	A	20030619	MX 2003-PA205	20030107
	US 20030176745	A1	20030918	US 2003-312586	20030117
	US 7074972	B2	20060711		
	ZA 2003000507	A	20040714	ZA 2003-507	20030120
PRAI	DE 2000-10035617	A	20000721		
	WO 2001-EP8197	W	20010716		

OS MARPAT 136:136652

AB RCH2CH2CHOHR1 (I; R = C6-13 alkyl; R1 = Me, Et), except 5-ethyl-2-nonanol and 6-ethyl-3-decanol, were manufactured as surfactants useful in laundry detergents, cleaning compns. etc. The derivs. of I, specifically fatty alc. alkoxyates, alkyl phosphates, alkyl ether phosphates, alkyl sulfates and alkyl ether sulfates were also claimed. I are manufactured by simple aldol condensation of linear or branched (un)saturated C7-14 aldehydes, except 2-Et hexanal, with Me2CO or MeCOEt and the subsequent hydrogenation of the condensation product. The aldol condensation is preferably catalyzed with a heterogeneous catalyst under hydrogenation conditions and the saturated ketone that has been formed is subsequently hydrogenated. For example, a mixture of nonanal isomers and Me2CO was heated at 160° under H pressure in the presence of Al2O3-supported Pd0 and Pr2O3 catalyst to give a mixture of dodecanols and dodecanone isomers. Me2CHOH and Me2CO were removed by distillation and the products were hydrogenated at 150° in the presence of Raney Ni to give 2-dodecanol isomers with branching degree 1.4. Ethoxylation of the latter isomers gave a title surfactant having cloud point 73° and surface tension 26.4 mN/m.

RE. CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2001:923952 CAPLUS  
 DN 136:55573  
 TI Manufacture of detergents based on oxo alcohols  
 IN Tropsch, Juergen; Maas, Heiko  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001096508	A1	20011220	WO 2001-EP6709	20010613
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10029692	A1	20011220	DE 2000-10029692	20000616
	DE 10029693	A1	20011220	DE 2000-10029693	20000616
	CA 2412755	A1	20021213	CA 2001-2412755	20010613
	EP 1294837	A1	20030326	EP 2001-960307	20010613
	EP 1294837	B1	20050824		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001011704	A	20030708	BR 2001-11704	20010613
	JP 2004503660	T	20040205	JP 2002-510628	20010613
	CN 1192085	C	20050309	CN 2001-811252	20010613
	AT 302834	T	20050915	AT 2001-960307	20010613
	ES 2248375	T3	20060316	ES 2001-960307	20010613
	MX 2002PA12194	A	20030606	MX 2002-PA12194	20021210
	US 20040009889	A1	20040115	US 2002-311210	20021216
	US 7074749	B2	20060711		
	KR 854663	B1	20080827	KR 2002-717152	20021216
PRAI	DE 2000-10029692	A	20000616		
	DE 2000-10029693	A	20000616		
	WO 2001-EP6709	W	20010613		

AB Detergents and hard surface cleaners contain alkoxyated oxo alcs. or their sulfates or phosphates  $i\text{-CaH}_{2a+1}(\text{OCH}_2\text{CHR}_1)_x(\text{OCH}_2\text{CHR}_2)_y\text{OR}_3$  ( $\text{R}_1, \text{R}_2 = \text{H}$ ,  $\text{C}_n\text{H}_{2n+1}$  alkyl;  $\text{R}_3 = \text{H}$ , sulfato, phosphato residue;  $a = 11, 12, 13$ ;  $n = 1-16$ ;  $x, y = 0-200$ ) and, optionally, other surfactants. The residue  $i\text{-CaH}_{2a+1}$  is derived from oxo alcs. obtained by hydroformylation of decene and/or dodecene which were produced by dimerization of 2-pentene and/or 3-hexene. For example, catalytic dimerization of 3-hexene (manufacture by metathesis reaction of a C4-olefin stream in presence of Al2O3-supported Re2O7 catalyst given) gave C12 fraction containing n-dodecene 14.2, 5-methylundecene 31.8, 4-ethyldecene 29.1, 5,6-dimethyldecene 6.6, 4-methyl-5-ethylnonene 9.3 and diethyloctene 3.7%. Hydroformylation of the latter mixture with CO/H in PhMe, in the presence of rhodium biscarbonyl acetylacetonate and polyethyleneimine N-acylated with lauric acid, gave a tridecanol fraction which was subjected to addnl. catalytic (Co/Mo) hydrogenation to give tridecanol having OH number 279 mg KOH/g. Ethoxylation of the latter with 7.5 mol ethylene oxide gave a surfactant with good washing and oil-removing properties.

RE. CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2000:645959 CAPLUS  
 DN 133:239738  
 TI Surfactant alcohols, their production and their use and olefin mixtures therefor  
 IN Maas, Heiko; Roper, Michael; Walter, Marc; Schulz, Ralf; Tropsch, Jurgen; Jager, Hans-Ulrich  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 35 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000053547	A1	20000914	WO 2000-EP1935	20000306
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 19910370	A1	20000914	DE 1999-19910370	19990309
	EP 1159237	A1	20011205	EP 2000-909324	20000306
	EP 1159237	B1	20030910		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002539095	T	20021119	JP 2000-603990	20000306
	AT 249405	T	20030915	AT 2000-909324	20000306
	PT 1159237	T	20040227	PT 2000-909324	20000306
	ES 2207489	T3	20040601	ES 2000-909324	20000306
	CN 1216018	C	20050824	CN 2000-807394	20000306
	US 6566566	B1	20030520	US 2001-936183	20010910
PRAI	DE 1999-19910370	A	19990309		
	WO 2000-EP1935	W	20000306		

OS MARPAT 133:239738

AB The invention relates to a method of preparing surface-active alcs. and surface-active alc. ethers which are well suited for use as surface-active agents or for the preparation of surface-active agents. To this end, olefin mixts. containing a predominant share of branched dodecenes (prepared from olefin mixts. containing less than 30 % by weight linear hexene isomers using a catalyst containing nickel) are derivatized to form surface-active alcs. which are then possibly alkoxyated. The invention also relates to the use of said surface-active alcs. and surface-active alc. ethers for the preparation of surface-active agents by glycosidation or polyglycosidation, sulfation, or phosphorylation. In an example, a mixture of methylpentenes 71, hexenes 22, and dimethylbutenes 7% was dimerized over a catalyst containing 50% NiO to give a dodecene mixture which was then hydroformylated and reduced to give a mixture of C13-primary alcs. The alc. mixture could then be ethoxylated, phosphorylated, or sulfated and the ethoxylate could also be sulfated or phosphorylated to give surfactants.

RE. CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 17:55:57 ON 20 DEC 2008

L1           STRUCTURE UPLOADED  
          D  
L2           STRUCTURE UPLOADED  
          D  
L3           0 SEA SSS SAM L1 OR L2  
L4           7 SEA SSS FUL L1 OR L2  
          D QUE L4 STAT  
          D 1-7 IDE CAN  
  
FILE 'CAPLUS' ENTERED AT 17:57:33 ON 20 DEC 2008  
L5           4 SEA ABB=ON PLU=ON L4  
          D 1-4 BIB ABS HITSTR  
          E TROPSCH JURGEN/AU  
L6           11 SEA ABB=ON PLU=ON "TROPSCH JURGEN"/AU  
          E TROPSCH JURGEN/AU  
L7           56 SEA ABB=ON PLU=ON ("TROPSCH JUERGEN"/AU OR "TROPSCH JUERGEN  
          G"/AU OR "TROPSCH JURGEN"/AU OR "TROPSCH JURGEN G"/AU)  
          E ZELINSKI THOMAS/AU  
L8           22 SEA ABB=ON PLU=ON ("ZELINSKI THOMAS"/AU OR "ZELINSKI THOMAS  
          W"/AU)  
L9           77 SEA ABB=ON PLU=ON L7 OR L8  
L10          5 SEA ABB=ON PLU=ON L9 AND ?SULFATES  
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          D 1-5 BIB ABS

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